

CHIP CERAMIC INDUCTORS

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Features

1. SMD type chip inductors utilizing monolithic structure provide highly reliable surface mount application.
2. Superior Q characteristics is guaranteed over wide frequency range for high frequency applications.
3. Excellent solder heat resistance for soldering.
4. Lead Free (RoHS Compliant)
5. Halogen Free (IPC4101B Compliant)

Applications

1. RF module of telecommunication products.
- cellular phone, cordless telephone etc.
2. GSM phone, PCS phone.
3. Computer communications, Radar detectors.
4. Keyless remote.

Ordering Information

$\frac{CI}{(1)}$ - $\frac{B}{(2)}$ $\frac{1608}{(3)}$ - $\frac{120}{(4)}$ $\frac{K}{(5)}$ $\frac{J}{(6)}$ $\frac{T}{(7)}$

(1) Series

(2) Material & Design

(3) Dimensions

First two digits : length(mm)

Last two digits : width(mm)

(4) Inductance

First two digits are Inductance values.

Last digit is the number of zeros.

(N : a decimal point placed between first two digits.)

(5) Tolerance

S : $\pm 0.3nH$

J : $\pm 5\%$

K : $\pm 10\%$.

(6) Termination

J : Nickel barrier

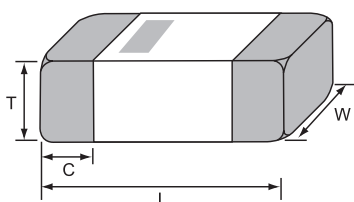
(7) Packaging

B : Bulk Package

T : Tape & Reel (\varnothing 178mm [7 inches])

L : Tape & Reel (\varnothing 254mm [10 inches])

Shape and Dimensions



unit : mm [inches]

Type	L	W	T	C
CI-□0603-	0.6 \pm 0.03 [.024 \pm .001]	0.3 \pm 0.03 [.012 \pm .001]	0.3 \pm 0.03 [.012 \pm .001]	0.15 \pm 0.05 [.006 \pm .002]
CI-□1005-	1.0 \pm 0.10 [.039 \pm .004]	0.5 \pm 0.10 [.020 \pm .004]	0.5 \pm 0.10 [.020 \pm .004]	0.20 \pm 0.10 [.008 \pm .004]
CI-□1608-	1.6 \pm 0.15 [.063 \pm .006]	0.8 \pm 0.15 [.031 \pm .006]	0.8 \pm 0.15 [.031 \pm .006]	0.30 \pm 0.20 [.012 \pm .008]
CI-□2012-	2.0 \pm 0.20 [.079 \pm .008]	1.25 \pm 0.20 [.049 \pm .008]	1.0 \pm 0.20 [.039 \pm .008]	0.50 \pm 0.30 [.020 \pm .012]

Specifications

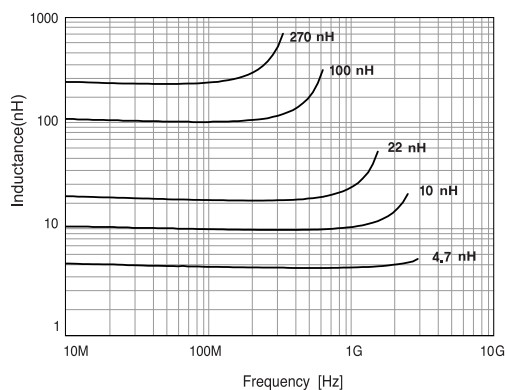
CI1608

Part No.	Inductance		Q min.	L,Q test frequency (MHz)	SRF (MHz)		DCR (mΩ) max	Rated Current (mA) max.
	nH	Tolerance			min.	typ.		
CI-B1608-10N□□□	1.0	±0.3nH	8	100	4000	13000	100	300
CI-B1608-12N□□□	1.2		8	100	4000	13000	100	300
CI-B1608-15N□□□	1.5		8	100	4000	10000	100	300
CI-B1608-18N□□□	1.8		8	100	3800	10000	120	300
CI-B1608-22N□□□	2.2		8	100	3600	10000	160	300
CI-B1608-27N□□□	2.7		8	100	3400	8000	200	300
CI-B1608-33N□□□	3.3		10	100	3200	6000	220	300
CI-B1608-39N□□□	3.9		10	100	3000	6000	250	300
CI-B1608-47N□□□	4.7		10	100	2800	5000	280	300
CI-B1608-56N□□□	5.6		10	100	2700	5000	290	300
CI-B1608-68N□□□	6.8	± 5% ±10%	10	100	2600	4000	300	300
CI-B1608-82N□□□	8.2		10	100	2200	4000	330	300
CI-B1608-100□□□	10		10	100	1800	3000	350	300
CI-B1608-120□□□	12		10	100	1650	2500	400	300
CI-B1608-150□□□	15		10	100	1350	2000	450	300
CI-B1608-180□□□	18		10	100	1350	2000	500	300
CI-B1608-220□□□	22		10	100	1100	1800	550	300
CI-B1608-270□□□	27		10	100	1100	1600	600	300
CI-B1608-330□□□	33		10	100	1000	1400	650	300
CI-B1608-390□□□	39		10	100	900	1300	700	300
CI-B1608-470□□□	47		10	100	800	1300	900	300
CI-B1608-560□□□	56		10	100	700	1100	1000	300
CI-B1608-680□□□	68		10	100	650	1000	1200	300
CI-B1608-820□□□	82		10	100	600	850	1500	300
CI-B1608-101□□□	100		10	100	550	750	1700	300
CI-B1608-121□□□	120		8	50	500	650	2000	250
CI-B1608-151□□□	150		8	50	500	600	2400	200
CI-B1608-181□□□	180		8	50	400	500	2700	200
CI-B1608-221□□□	220		8	50	400	500	2800	200
CI-B1608-271□□□	270		8	50	350	450	3100	200

- SRF : Self-Resonant Frequency.
- DCR : DC Resistance

Electrical Characteristics

Inductance characteristics



Q characteristics

